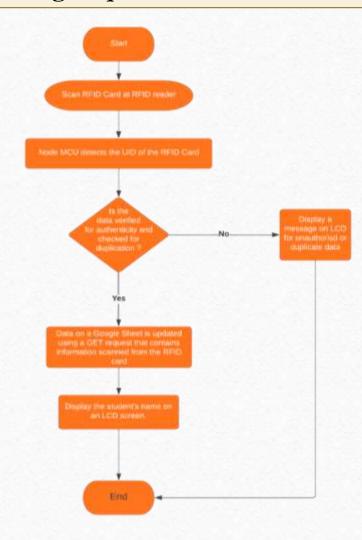
# IOT PROJECT

RFID Based Attendance System

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## Flow Chart Depicting Sequential Processes Involved



**Block Diagram Representing** Working of the project :-



RFID Card uses radio

frequency to share data to



nearby readers
nearby readers
send to
the Data is then send to
where it is
Node MCU where it is
checked for authentication

sends data to display on screen





NodeMCU is connected to Wi-Fi, facilitating data exchange capabilities.



田 **GOOGLE** 

SPREADSHEET

Duplicate data is checked and handled using Google Apps Script code

Data is updated on the google sheet using a GET request

# Working

- Firstly we programme the information into the RFID tags & cards.
- Then we scanned the programmed cards & tags using RFID reader, which reads the information on the tags, where the authorization of the tags takes place.
- Duplicate data is checked and handled using Google Apps Script code
- Then using a post request the data is sent to google sheets which makes an entry having time & date of attendance.

# **Project Dependencies**

## **Hardware Requirements:-**

- Node MCU
- RFID Reader
- RFID Tag & Card

## Software Requirements:-

- Google Sheets
- App Script
- Arduino IDE
- Libraries :-
  - ESP8226
  - MFRC522
  - Adafruit

# Language Used:-

- Embedded C
- Javascript

# THANK YOU